

## **California Water Management** and Climate Change

- Climate change presents significant challenges for the management of California's water resources.
- □ California water managers must focus on mitigation and especially adaptation.
- Climate change responses must be thoughtfully integrated with water supply reliability, environmental protection, public safety, and public health actions.
- We must embrace an entirely new way of thinking about water resources planning and management.



## Common Energy-Water Tradeoffs Seawater desalting

More Energy Use 0 Less

Wastewater reuse Conjunctive use Wastewater treatment Large dam Drip irrigation-SW removal Fish screens Water conservation Shade trees Hot water

Crop vield conservation improvements

Solar generation agriculture substitution?

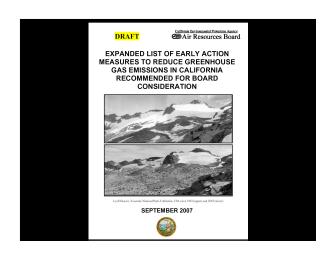
Water Use or Environmental Impact

Water treatment Pumping

Evaporative cooling

Biofuels Production? Shale oil Production?

More



## **CLIMATE ADAPTATION STRATEGY**

- Executive Order S-13-08
- Statewide adaptation plan covering seven sectors:

  - Transportation and Energy Infrastructure

  - Oceans and Coastal Resources

  - Biodiversity and Habitat
  - Public Health
- NAS Sea Level Rise Study
- Transportation systems vulnerability assessment